

REINFORCED ANGLE BRACKETS FOR BUILDINGS

STRENGTH

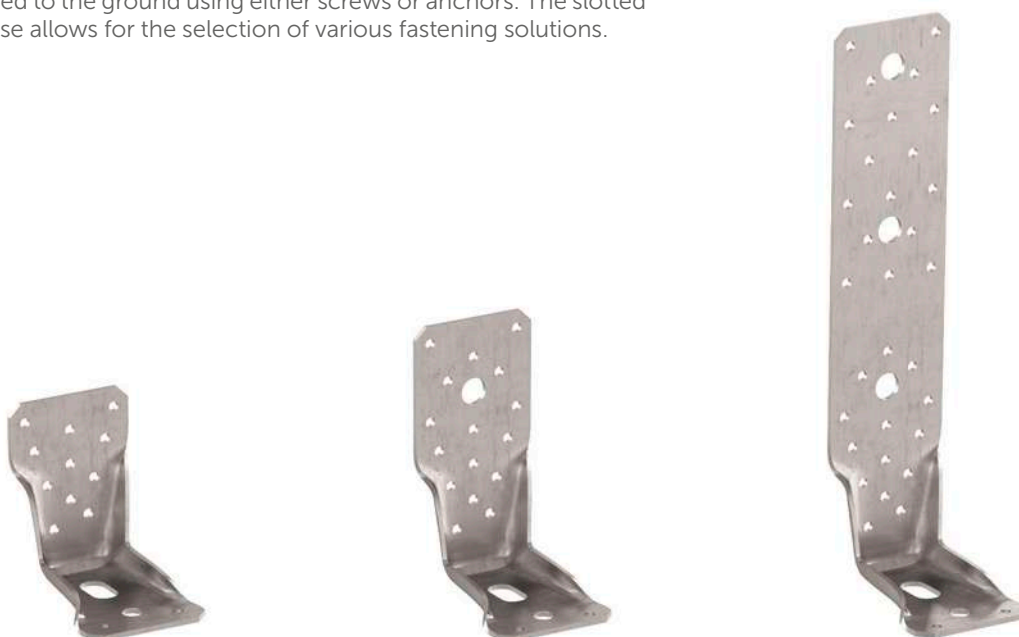
A thick bracket with a reinforced base to provide high tensile strength and rocking capacity.

VERSATILE FASTENING

Fastening can be performed using screws, nails and anchors. The arrangement and size of the fastening holes ensure optimal application and performance in any situation.

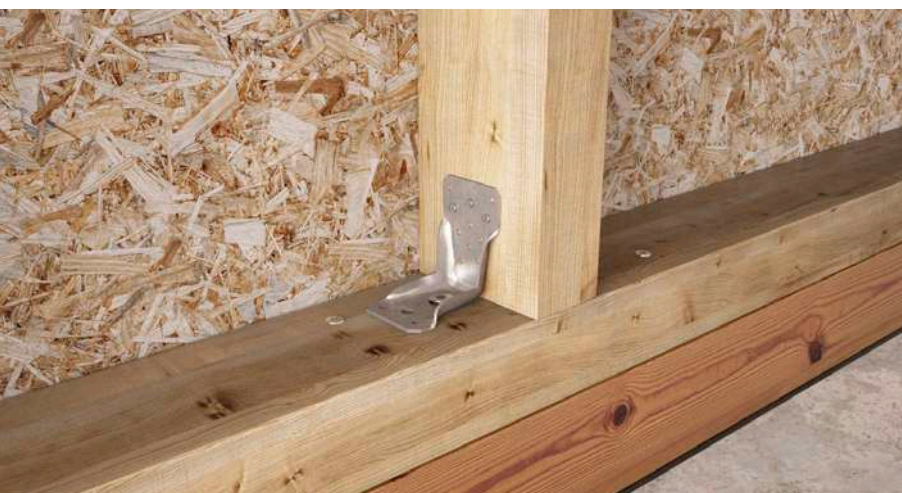
SLOTTED HOLE

Can be fastened to the ground using either screws or anchors. The slotted hole in the base allows for the selection of various fastening solutions.



CHARACTERISTICS

FOCUS	tension fastening
HEIGHT	from 95 to 285 mm
THICKNESS	3,0 3,5 mm
FASTENERS	LBA, LBS, SKR, VIN-FIX PRO



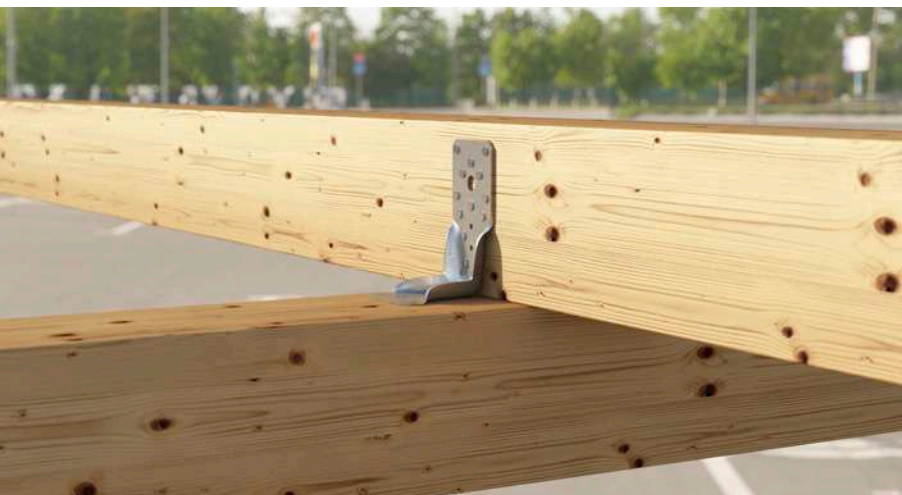
MATERIAL

Carbon steel, three dimensional perforated plate.

FIELD OF USE

Timber-to-concrete and timber-to-timber joints

- solid timber and glulam
- CLT, LVL
- framed structures (platform frame)
- timber based panels



REINFORCEMENT

The shape of the WKR bracket "foot" ensures both improved tensile strength and rocking capacity. Additionally, the angle bracket also supports the wall in a vertical position."

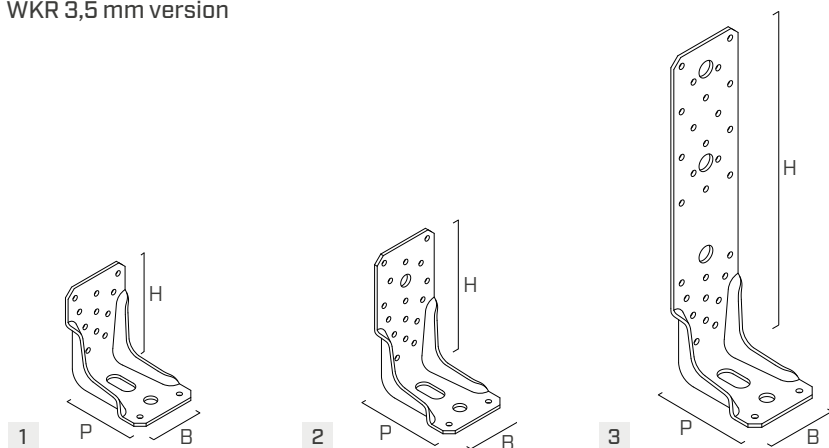
TENSION

Ideal for most common joints and all applications that require "normal" values of tensile strength.

CODES AND DIMENSIONS

WKR 3,5 mm version

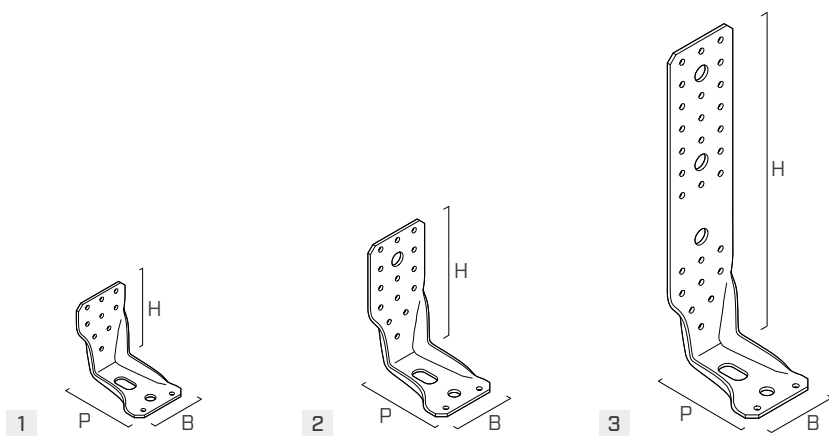
DX51D
GALV



CODE	B	P	H	s	n Ø5	n Ø11	n _v Ø14	n _H Ø12,5			pcs
	[mm]	[mm]	[mm]	[mm]	pcs	pcs	pcs	pcs			
1 WKR095	65	85	95	3,5	13	1	-	1	•	•	25
2 WKR135	65	85	135	3,5	18	1	1	1	•	•	25
3 WKR285	65	85	285	3,5	30	1	3	1	•	•	25

WKR 3 mm version

S250
GALV



CODE	B	P	H	s	n Ø5	n Ø11	n Ø13,5	n _v Ø13,5	n _H Ø13,5			pcs
	[mm]	[mm]	[mm]	[mm]	pcs	pcs	pcs	pcs	pcs			
1 WKR09530	65	88	95	3	11	1	1	-	1	•	•	25
2 WKR13530	65	88	135	3	16	1	2	1	1	•	•	25
3 WKR28530	65	88	285	3	30	1	4	3	1	•	•	25

MATERIAL AND DURABILITY

WKR: steel DX51D+Z275.

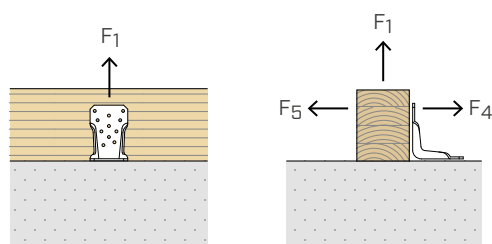
WKR 3 mm: steel S250GD+Z275.

To be used in service classes 1 and 2 (EN 1995-1-1).

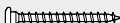
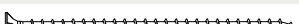
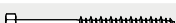
FIELD OF USE

- Timber-to-timber joints
- Timber-to-concrete joints
- Timber-to-steel joints

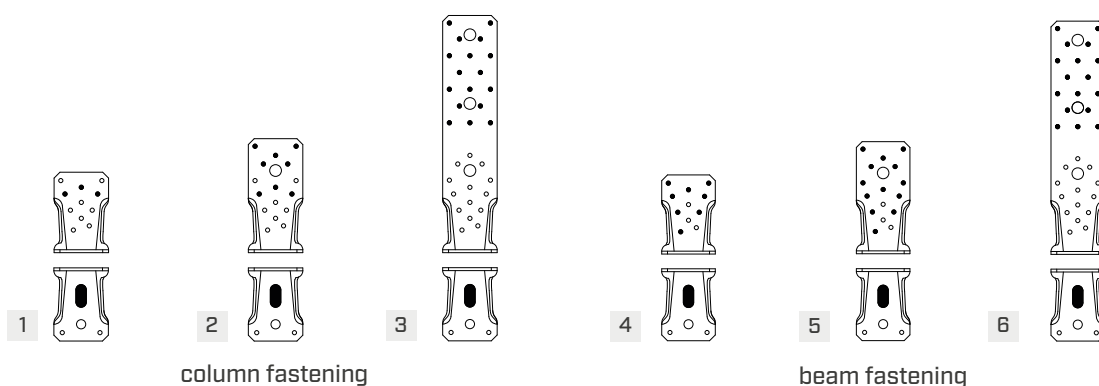
EXTERNAL LOADS



■ ADDITIONAL PRODUCTS - FASTENING

type	description		d [mm]	support	page
LBA	Anker nail		4		548
LBS	screw for plates		5		552
VGS	full thread screw		11		564
SKR	screw anchor		10		488
EPO-FIX PLUS	chemical anchor		M10 - M12		517

■ STATIC VALUES | TIMBER-TO-CONCRETE JOINT



CODE	FASTENING NUMBER			CHARACTERISTIC VALUES		
	holes fastening Ø5			COLUMN FASTENING		
	type	Ø x L [mm]	n _v pcs	R _{1,k} timber [kN]	R _{1,k} steel [kN]	Bolt ₁ ⁽¹⁾ k _{t//}
1 WKR095	LBA nails	Ø4,0 x 60	3	5,6	10,1	1,44
2 WKR135	LBA nails	Ø4,0 x 60	8	15,0	10,1	1,44
3 WKR285	LBA nails	Ø4,0 x 60	17	31,8	10,1	1,44

CODE	FASTENING NUMBER			CHARACTERISTIC VALUES						
	holes fastening Ø5			BEAM FASTENING						
	type	Ø x L [mm]	n _v pcs	R _{1,k} timber [kN]	R _{1,k} steel [kN]	Bolt ₁ ⁽¹⁾ k _{t//}	R _{4/5,k} timber [kN]	R _{4/5,k} steel [kN]	Bolt _{4/5} ⁽¹⁾ k _{t⊥}	Bolt _{4/5} ⁽¹⁾ k _{t//}
4 WKR095	LBA nails	Ø4,0 x 60	8	15,0	10,1	1,44	9,05	9,95	0,70	0,38
5 WKR135	LBA nails	Ø4,0 x 60	13	24,4	10,1	1,44	9,49	9,97	0,69	0,34
6 WKR285	LBA nails	Ø4,0 x 60	17	31,8	10,1	1,44	-	-	-	-

* 2 angle brackets per joint

For NOTES and GENERAL PRINCIPLES please see p. 345.